

flowtread



## Flowtread Gratings

Uniform Distributed Loads (UDL) – kN/m<sup>2</sup>

Span (mm)	25mm		40mm	
	UDL (kN/m <sup>2</sup> )	Deflection (mm)	UDL (kN/m <sup>2</sup> )	Deflection (mm)
300	177.28	1.5	449.51	1.5
400	74.79	2.0	189.64	2.0
500	42.18	2.5	111.89	2.5
600	24.41	3.0	64.75	3.0
700	16.09	3.5	44.11	3.5
800	10.78	4.0	29.55	4.0
900	7.78	4.5	22.05	4.5
1000	5.67	5.0	16.07	5.0
1100	4.35	5.5	12.08	5.5
1200	3.35	6.0	9.76	6.0
1300	2.64	6.5	7.68	6.5
1400	2.11	7.0	6.15	7.0
1500	1.72	7.5	5.0	7.5
1600	1.41	8.0	4.12	8.0
1700	-	-	3.43	8.5
1800	-	-	2.89	9.0
1900	-	-	2.46	9.5
2000	-	-	2.11	10.0
2100	-	-	1.73	10.0
2200	-	-	1.44	10.0

Clear span – Deflection limited to L/200

1.50 kN/m <sup>2</sup>	1569mm	2177mm
3.00 kN/m <sup>2</sup>	1245mm	1778mm
5.00 kN/m <sup>2</sup>	1043mm	1500mm
7.50 kN/m <sup>2</sup>	911mm	1310mm

## Flowtread Gratings

Concentrated Load (kN/300mm width at mid span)

Span (mm)	25mm (38x38)		38mm (38x38)	
	C/L (kN)	Deflection (mm)	C/L (kN)	Deflection (mm)
300	33.24	1.5	84.28	1.5
400	18.70	2.0	47.41	2.0
500	13.18	2.5	34.97	2.5
600	9.15	3.0	24.28	3.0
700	7.04	3.5	19.30	3.5
800	5.39	4.0	14.78	4.0
900	4.38	4.5	12.40	4.5
1000	3.55	5.0	10.05	5.0
1100	2.99	5.5	8.30	5.5
1200	2.51	6.0	7.32	6.0
1300	2.14	6.5	6.24	6.5
1400	1.85	7.0	5.38	7.0
1500	1.61	7.5	4.68	7.5
1600	1.41	8.0	4.12	8.0
1700	-	-	3.65	8.5
1800	-	-	3.25	9.0
1900	-	-	2.92	9.5
2000	-	-	2.63	10.0
2100	-	-	2.28	10.0
2200	-	-	1.98	10.0

